



INTRODUCING THE CHESAPEAKE BAY TMDL PROCESS TO VIRGINIA

Public Meeting
October 2, 2009

Webinar will begin shortly.

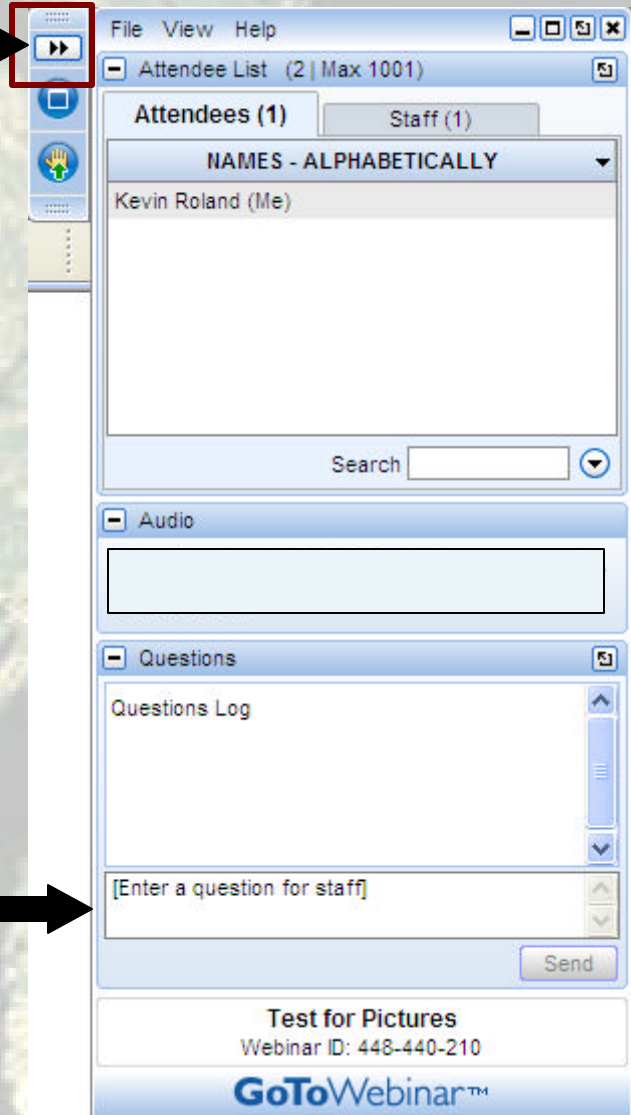


Please stand by...

AGENDA

1. Call to Order and Review of Webinar Logistics Alan Pollock, DEQ
2. Purpose of Today's Meeting Jeff Corbin, OSNR
3. Opening Remarks Secretary of Natural Resources
The Honorable L. Preston Bryant, Jr.
4. Introducing Chesapeake Bay TMDL Bob Koroncai, EPA
Rich Batiuk, EPA
5. Where Virginia Goes From Here Jeff Corbin, OSNR
6. Question & Answer Panel Jack Frye, DCR (moderator)
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 - Bob Koroncai, EPA
 - Rich Batiuk, EPA
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 - Alan Pollock, DEQ
 - Russ Perkinson, DCR

- Click the double arrow to show or hide your control panel



- Type your questions here.
Note: Because of the large audience, not all questions will be answered, but they will be saved, and your questions will help drive future events and could contribute to a FAQ.



Technical Issues?

Contact:

- Citrix Customer Support at:
888-259-3826

OR

- Meghan Klastic (EPA) at:
klasic.meghan@epa.gov or
(202) 564-8221

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Chesapeake Bay TMDL

Mandatory Pollution Diet to Restore Streams, Rivers and the Chesapeake Bay

Bay TMDL Public Meeting

October 2, 2009

Richmond, Virginia

Richard Batiuk, Robert Koroncai

U.S. Environmental Protection Agency

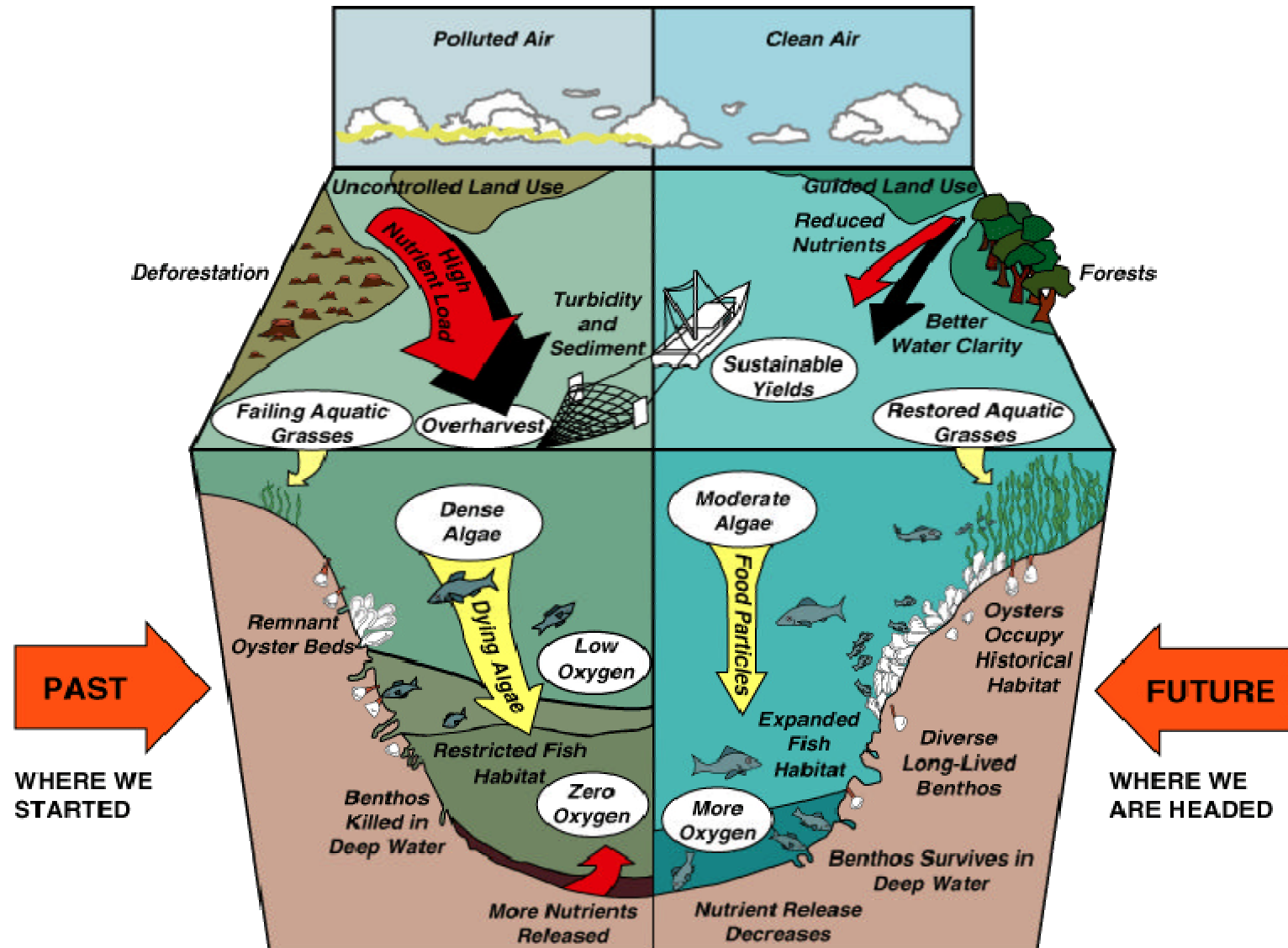


Chesapeake Bay Ecosystem

- Largest U.S. estuary
- Six-state, 64,000 square mile watershed
- 10,000 miles of shoreline (longer than entire U.S. west coast)
- Over 3,600 species of plants, fish and other animals
- Average depth: 21 feet
- \$750 million contribution annually to local economies
- Home to 17 million people (and counting)
- 77,000 principally family farms
- Declared “national treasure” by President Obama

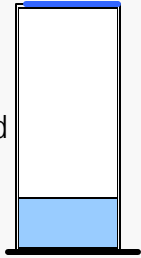


Chesapeake Bay Health: Past and Future

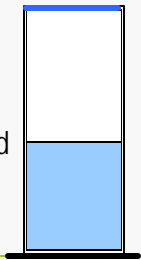


**Priority Areas****Percent of Goal Achieved**

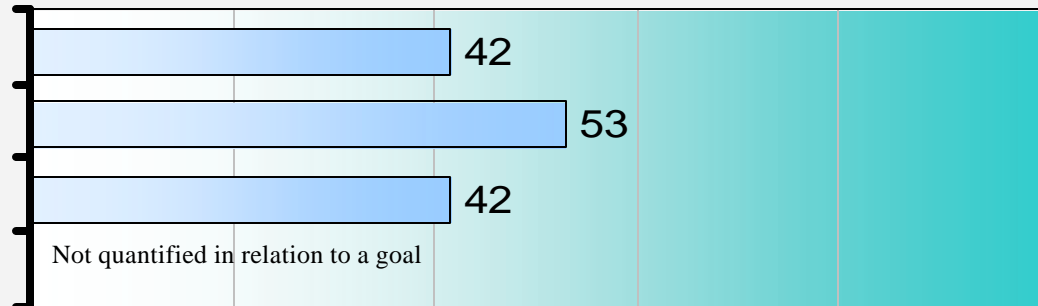
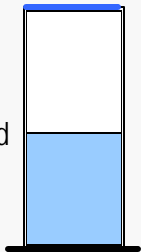
0 10 20 30 40 50 60 70 80 90 100

Water Quality21%
of
Goals Achieved

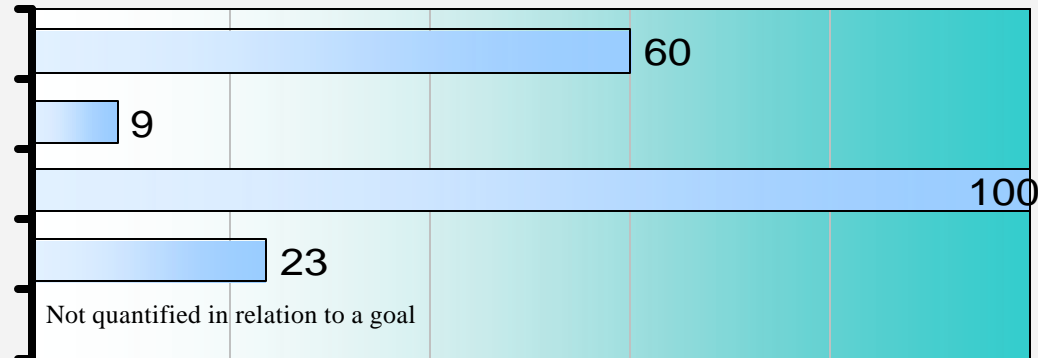
Dissolved Oxygen
Mid-Channel Clarity
Chlorophyll a
Chemical Contaminants

**Habitats & Lower Food Web**45%
of
Goals Achieved

Bay Grasses
Phytoplankton
Bottom Habitat
Tidal Wetlands

**Fish & Shellfish**48%
of
Goals Achieved

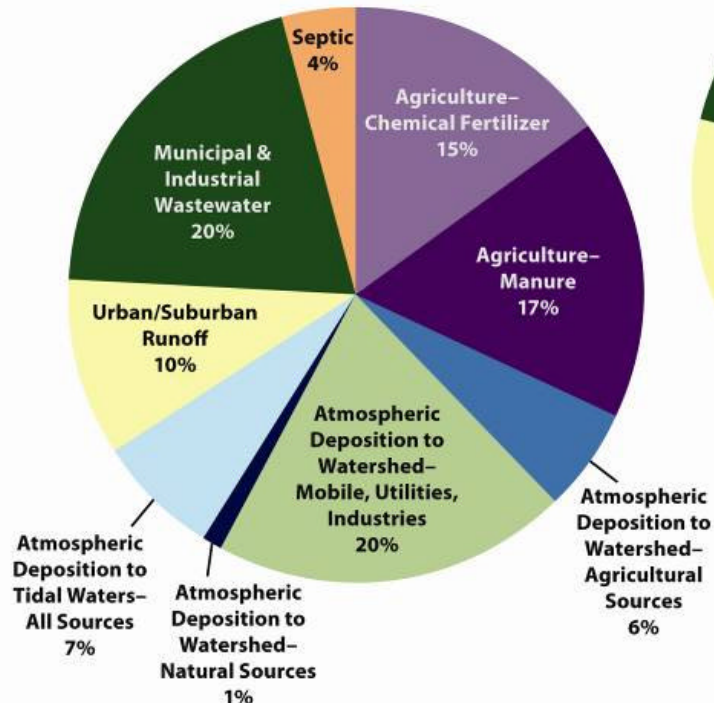
Blue Crab
Oyster
Striped Bass
Shad
Juvenile Menhaden



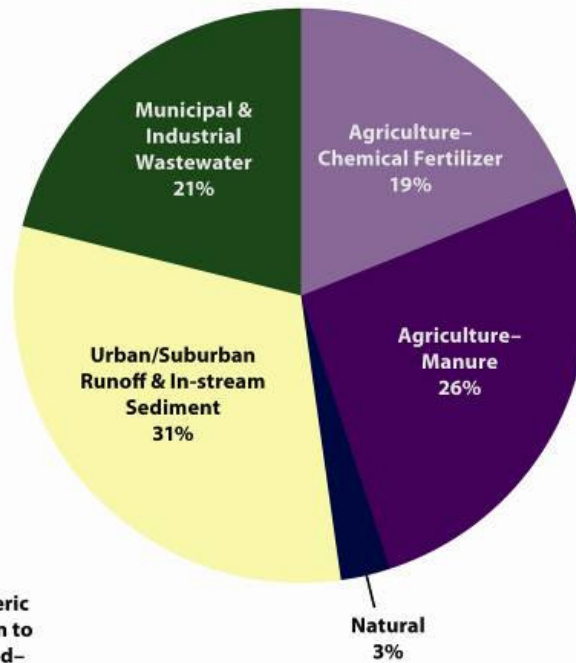
Main Sources of Pollution

- Agriculture – animal manure, commercial fertilizer
- Urban/suburban runoff – a growing problem
- Air pollution – tailpipes, power plants
- Wastewater – sewage treatment plants

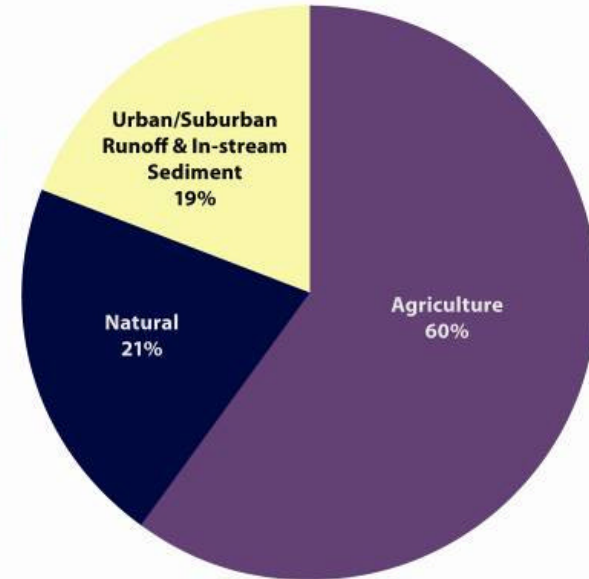
Nitrogen



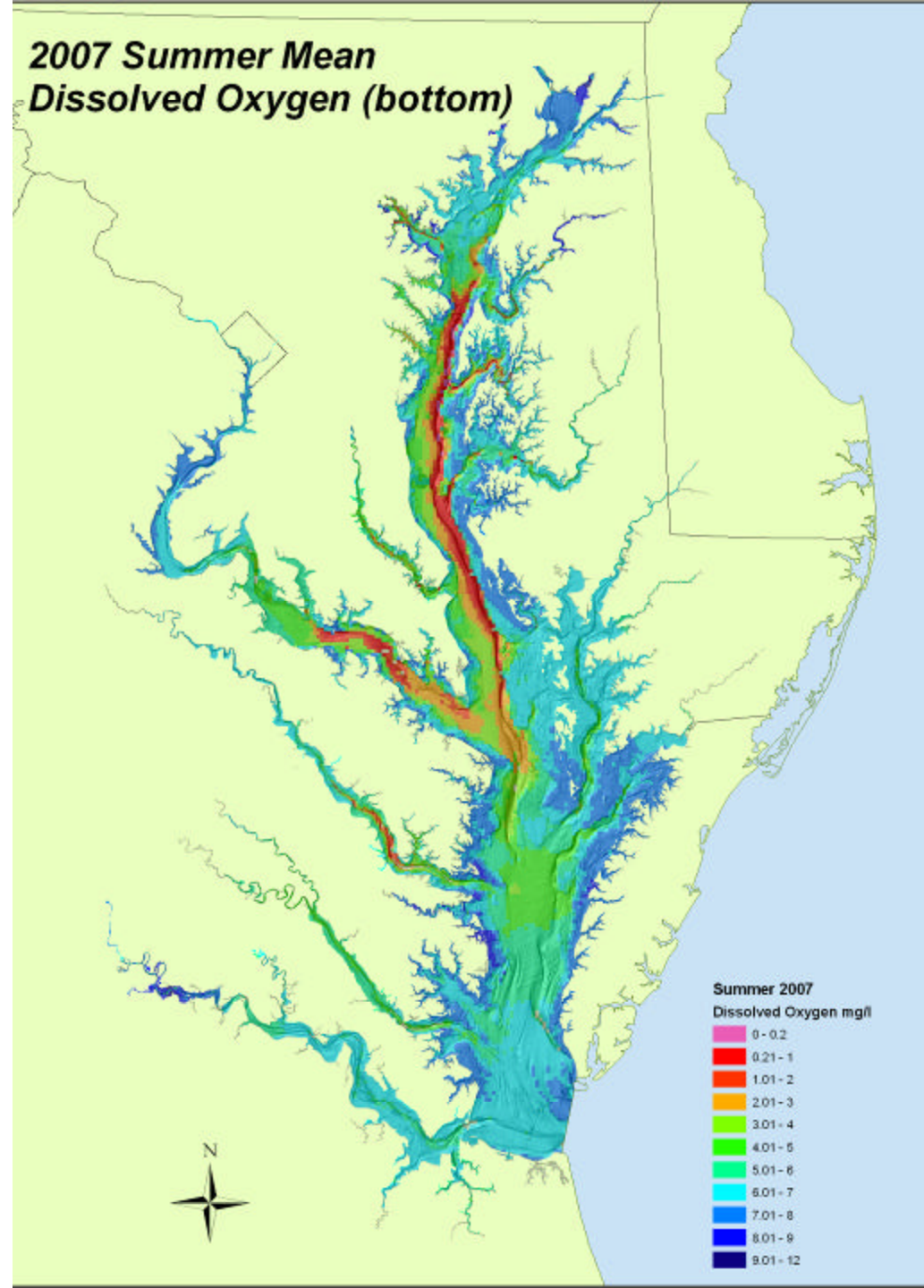
Phosphorous



Sediment



Why a Bay TMDL Now?



New Approach to Restoration

Performance and Accountability

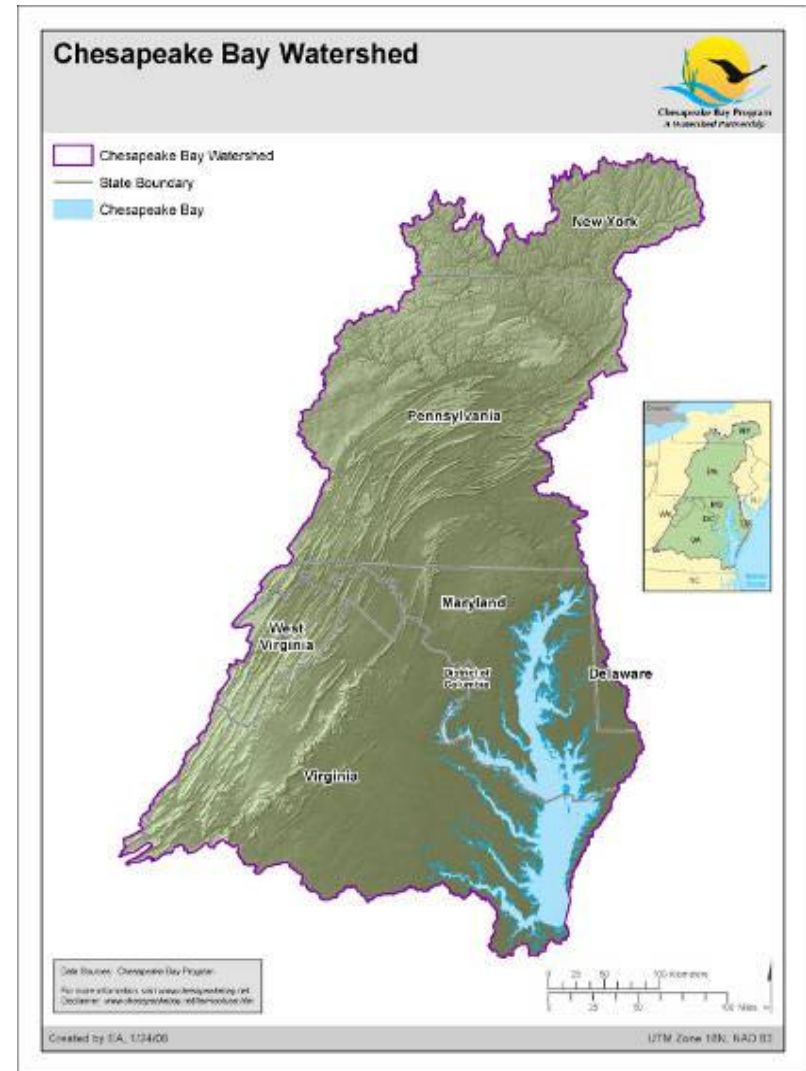
- **Total Maximum Daily Load (TMDL):**
Mandatory 'pollution diet'
- **Chesapeake Bay Executive Order:**
New era of federal leadership
- **Two-Year Milestones:**
State/local commitments to action
- **Consequences:**
Federal monitoring; consequences for lagging progress

What is a TMDL?

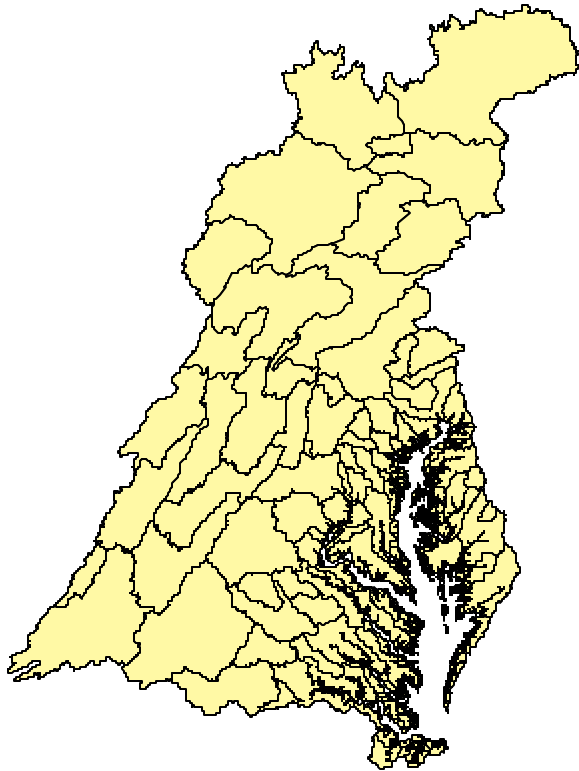
- Regulatory tool of the Clean Water Act, Section 303(d)
- Identifies pollutant limit a clean waterbody can sustain. Includes:
 - ‘Point sources’ like sewage treatment plants
 - ‘Nonpoint sources’ like polluted runoff from land
 - Margin of safety

Chesapeake Bay TMDL

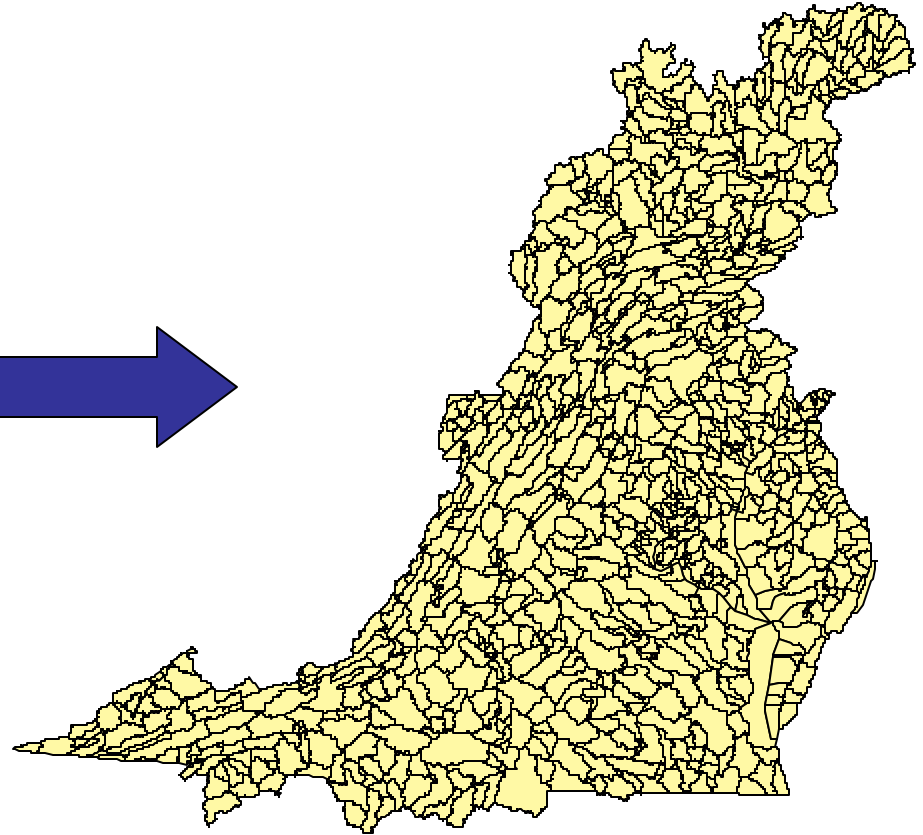
- EPA sets pollution diet and oversees its achievement
- Restrictions on nitrogen, phosphorus and sediment
- Limits sufficient to meet states' Bay clean water standards



The Bay science supports local pollution diets...

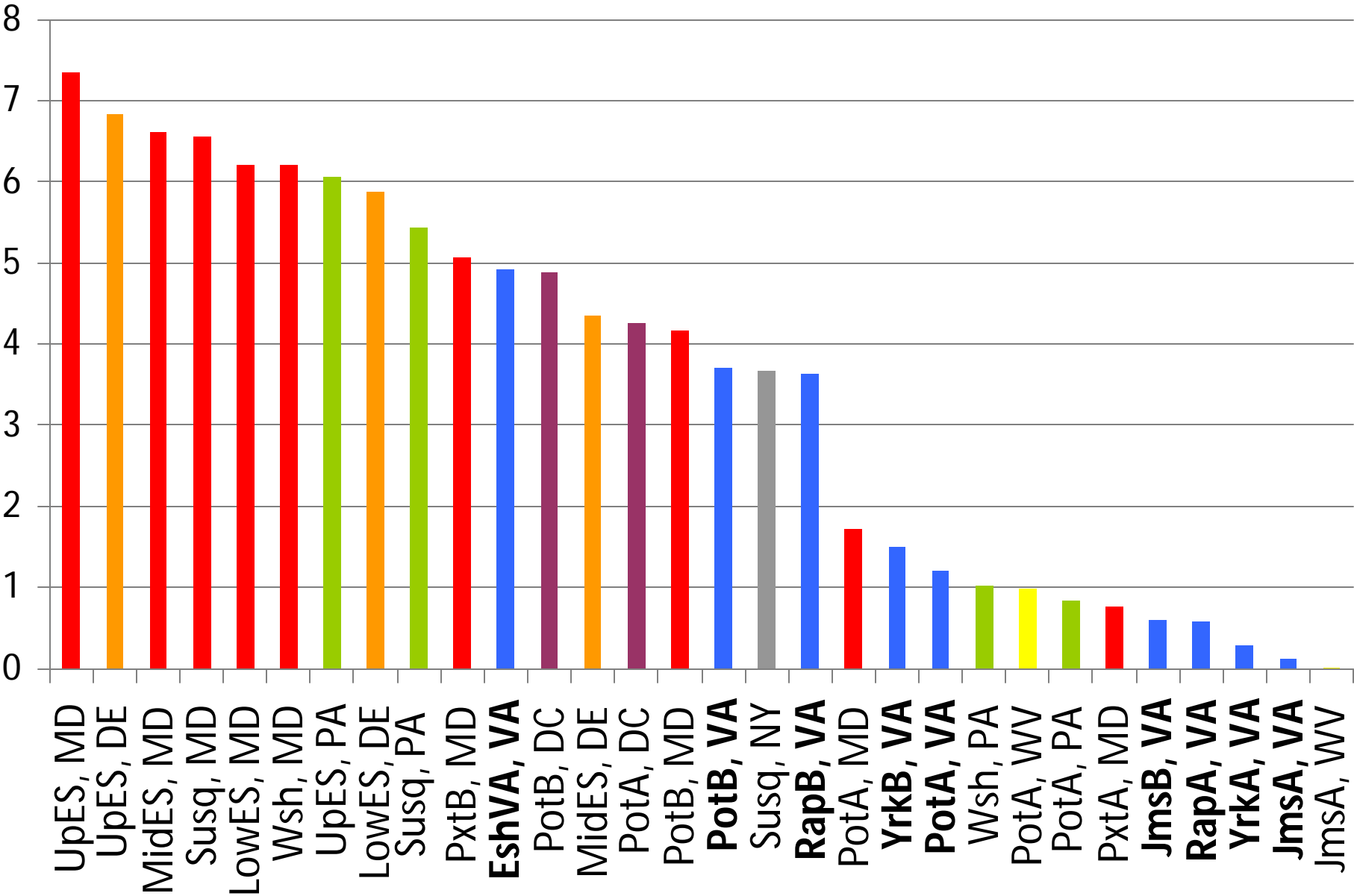


Phase 4 Watershed
Model

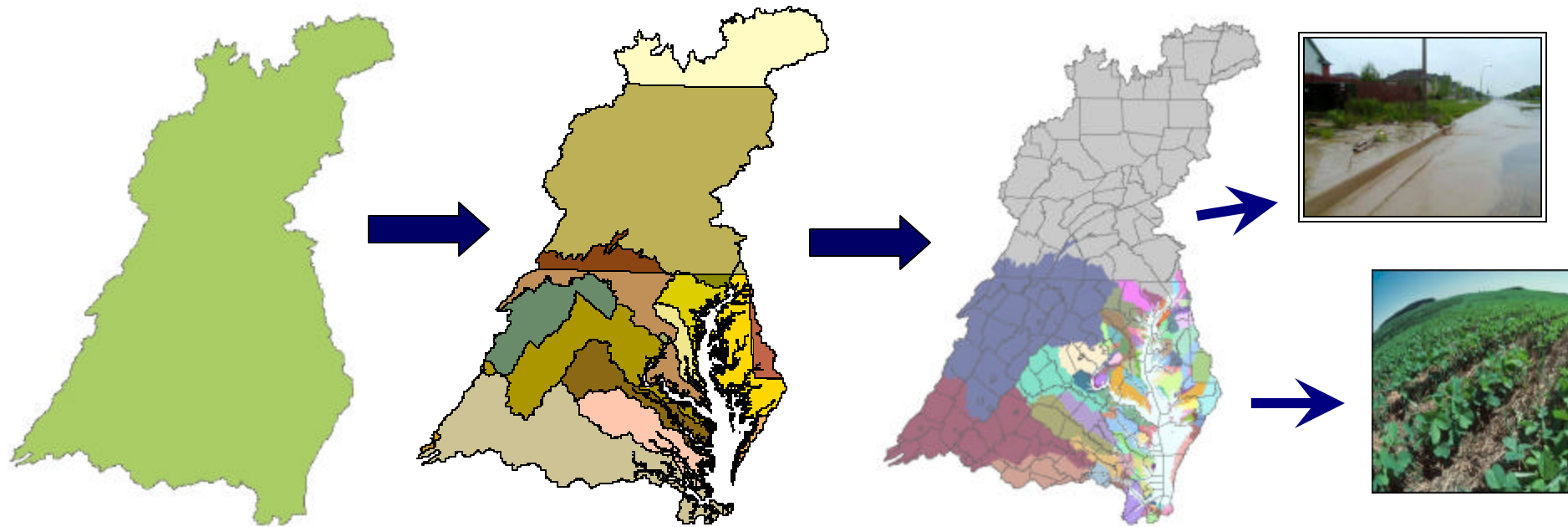


Phase 5 Watershed
Model

Relative Water Quality Impact on Shared MD/VA Bay Waters



Taking Responsibility for Load Reductions



**Identify
basinwide target
loads**

EPA, States, DC

**Identify major
basin by
jurisdiction
target loads**

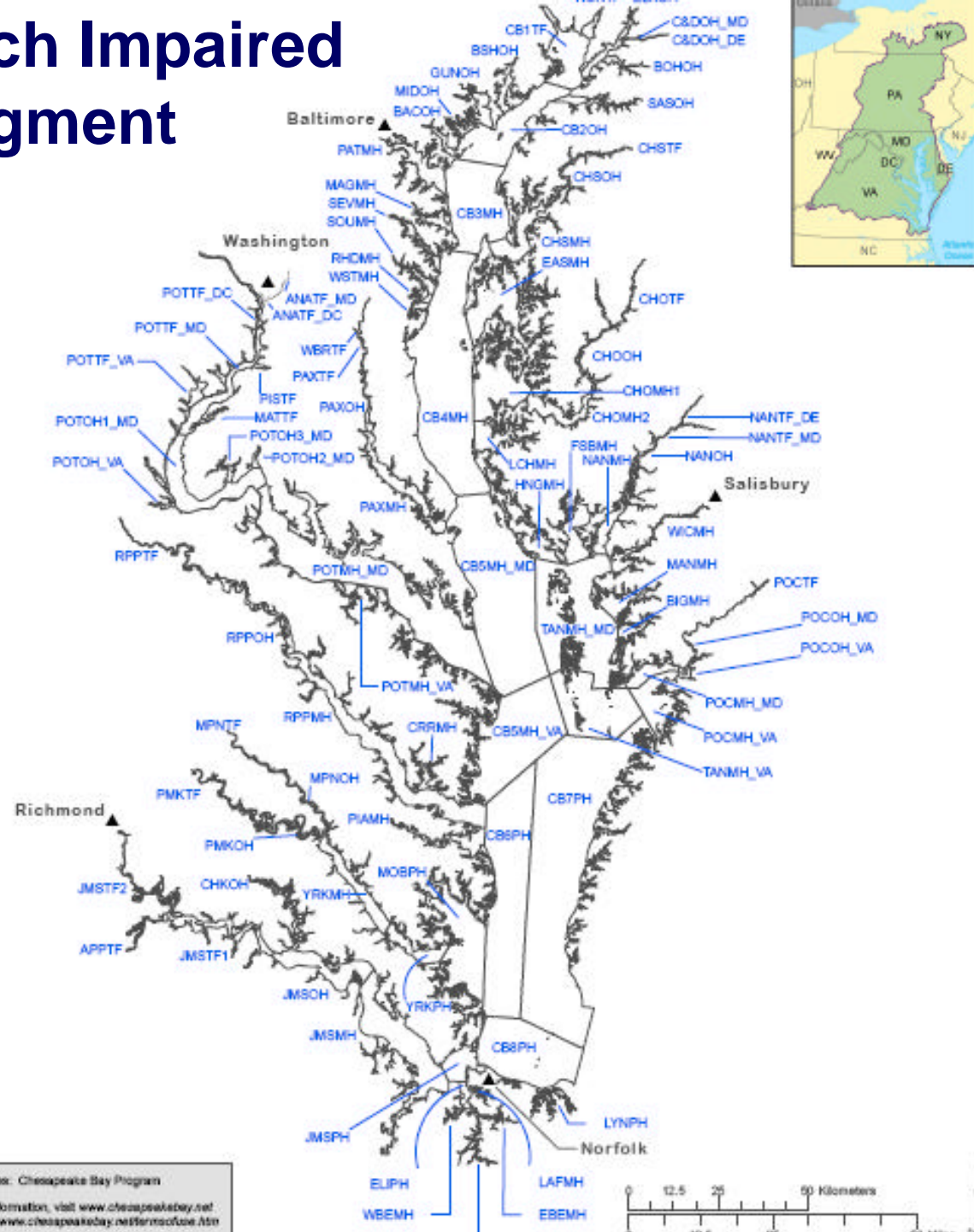
EPA, States, DC

**Identify tidal segment
watershed, county and source
sector target loads**

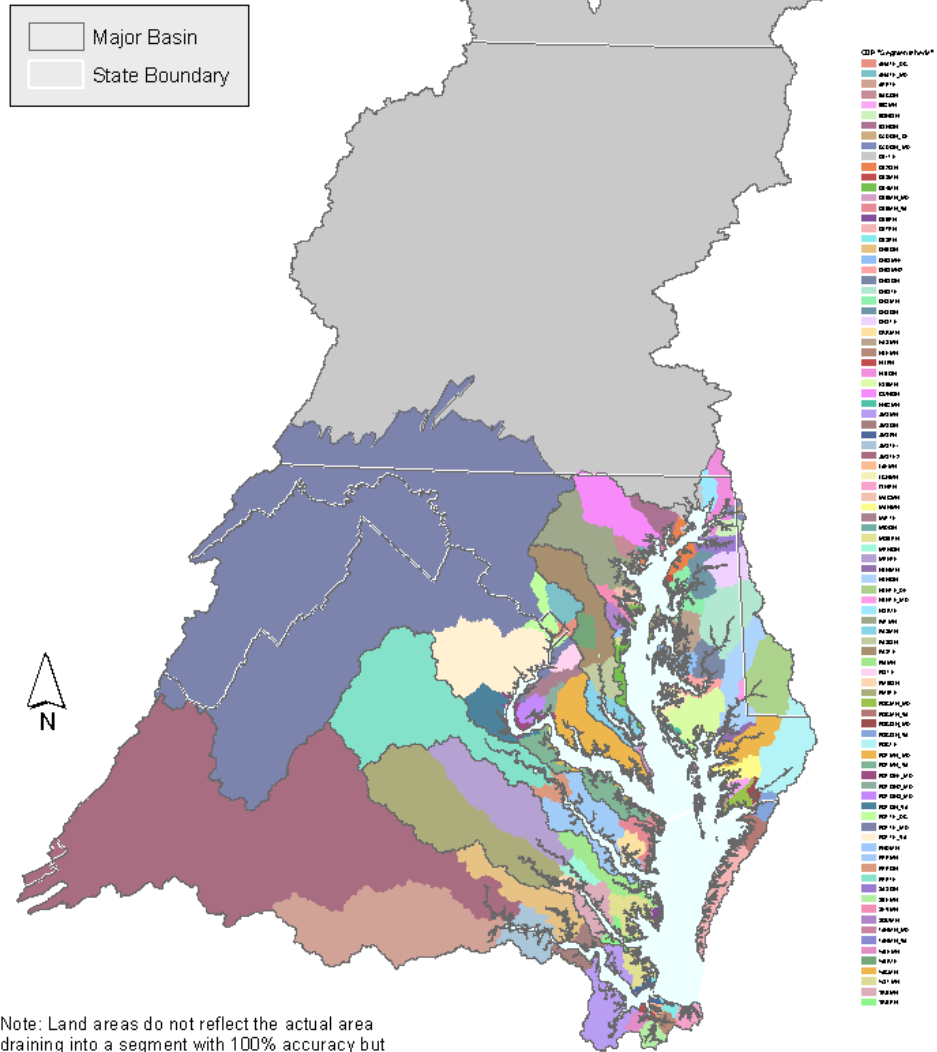
**States, DC, local governments
& local partners**

Pollution Diet for Each Impaired Tidal Water Segment

- **Clean Water Act requires a TMDL for each impaired waterbody**
- **MD, VA, DE, DC have listed most of the Bay's 92 tidal water segments as impaired**
- **All 6 watershed states must be part of reaching the prescribed diet for each of these Bay tidal water segments**

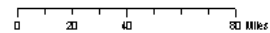


Land Areas of the Chesapeake Bay Basin Draining into the 92 Tidal Bay Segments

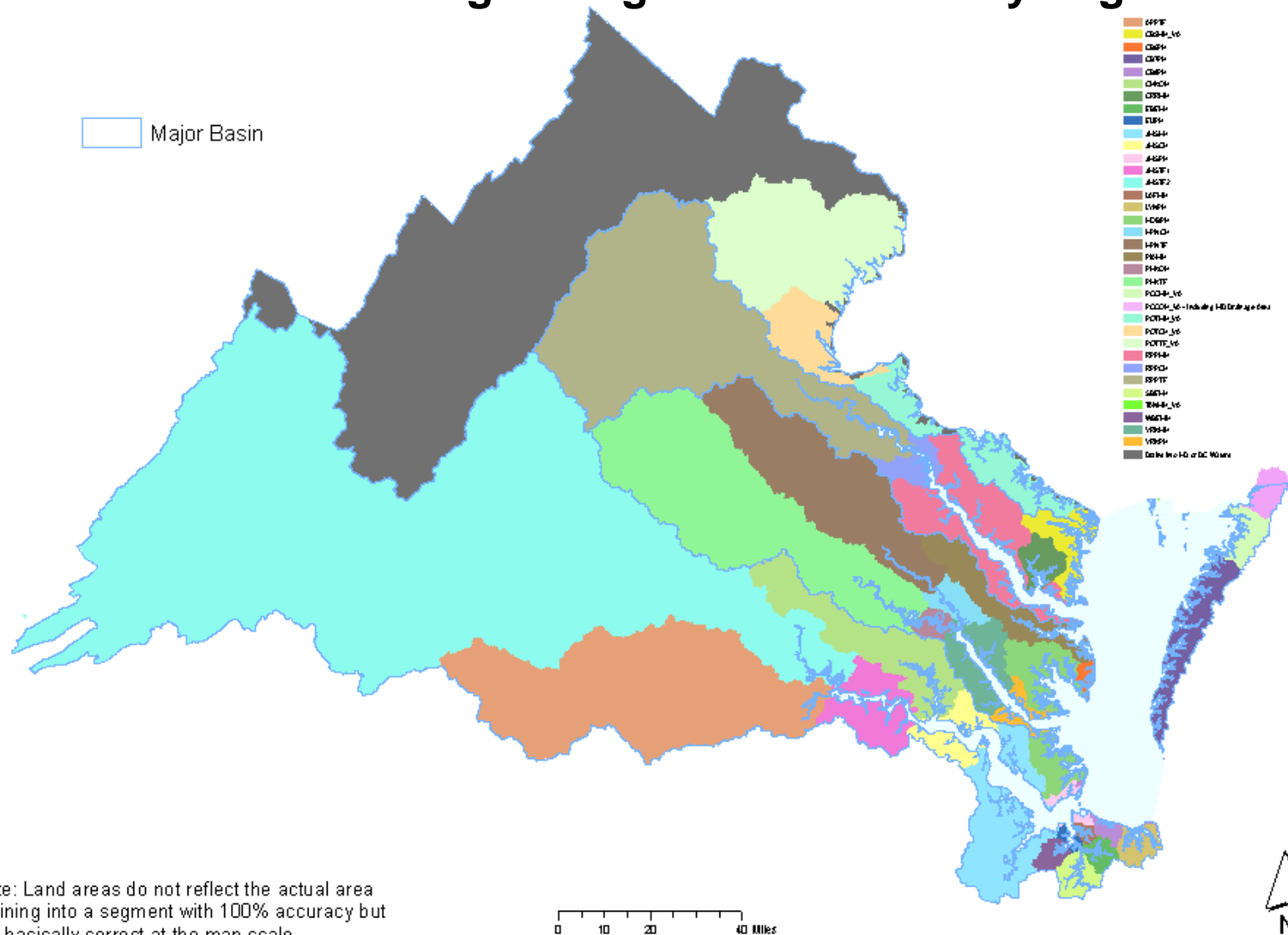


Note: Land areas do not reflect the actual area draining into a segment with 100% accuracy but are basically correct at the map scale.

Created 09/24/09 by HWV.



Watersheds Draining to Virginia's 35 Tidal Bay Segments



Note: Land areas do not reflect the actual area draining into a segment with 100% accuracy but are basically correct at the map scale.

Created 09/29/09 by HWV.

Counties Overlaying the Watersheds Draining to Virginia's 35 Tidal Bay Segments

Legend:

- County Boundary
- Watershed Segments (35 total):
 - 00000
 - 00001-00005
 - 00006
 - 00007
 - 00008
 - 00009
 - 00010
 - 00011
 - 00012
 - 00013
 - 00014
 - 00015
 - 00016
 - 00017
 - 00018
 - 00019
 - 00020
 - 00021
 - 00022
 - 00023
 - 00024
 - 00025
 - 00026
 - 00027
 - 00028
 - 00029
 - 00030
 - 00031
 - 00032
 - 00033
 - 00034
 - 00035

Note: Land areas do not reflect the actual area draining into a segment with 100% accuracy but are basically correct at the map scale.

0 10 20 40 Miles

Created 09/29/09 by HWI

Counties Overlaying the Watersheds Draining to Virginia's 35 Tidal Bay Segments

This map illustrates the relationship between Virginia's counties and the watersheds that drain into its 35 tidal bay segments. Each county is shaded in a unique color corresponding to a specific watershed segment, as detailed in the legend. The legend lists 35 segments, including those in the Potomac, Rappahannock, James, York, and James River basins, as well as segments in the Chesapeake Bay and the Atlantic Ocean. A scale bar at the bottom indicates distances up to 40 miles, and a north arrow is located in the bottom right corner.

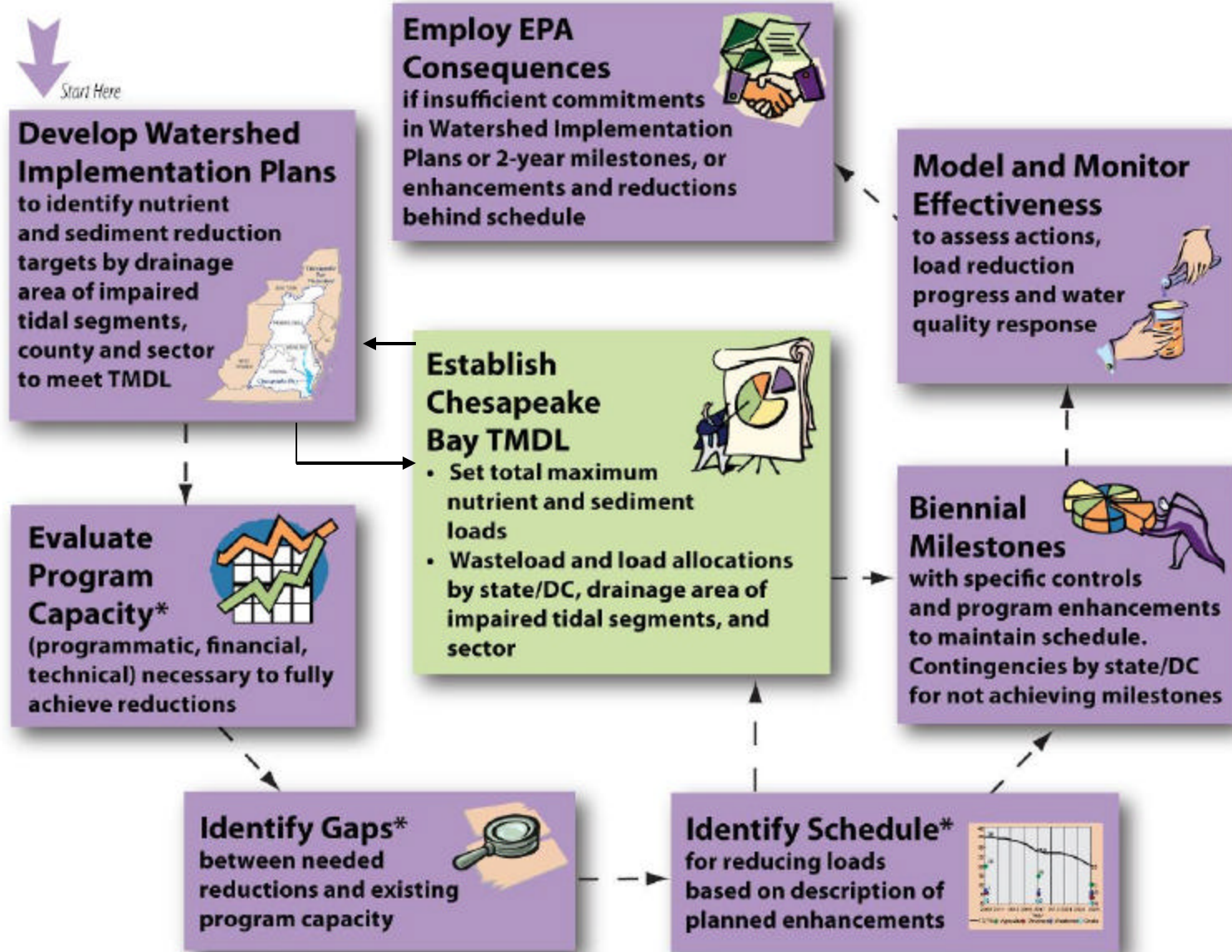
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Created 09/29/09 by HWI.

Restoring Virginia's Rivers/Bay

- **Virginia is down-stream/down-tide of others**
 - Must do its share of reductions, but can't restore tidal rivers and Bay water quality alone!
- **James, York Rivers must also address local water quality problems**
 - Tidal York River has oxygen and bay grasses problems
 - Tidal James River has algae and bay grasses problems
- **Bringing Bay restoration to where local decisions are made that impact water quality**
 - Counties, cities, towns, conservation districts
- **Opportunity to build on VA Clean-up Plan**
 - Factor in local TMDLs, local water quality needs

Mandatory Pollution Diet at Work



*Included in Watershed Implementation plans

Watershed Implementation Plan Expectations

- **Identify reductions by river basin, tidal segment watershed, county, source sector**
- **Identify gaps and strategy for building local capacity**
- **Commit to develop 2-year milestones at the county scale**
- **Develop contingencies**

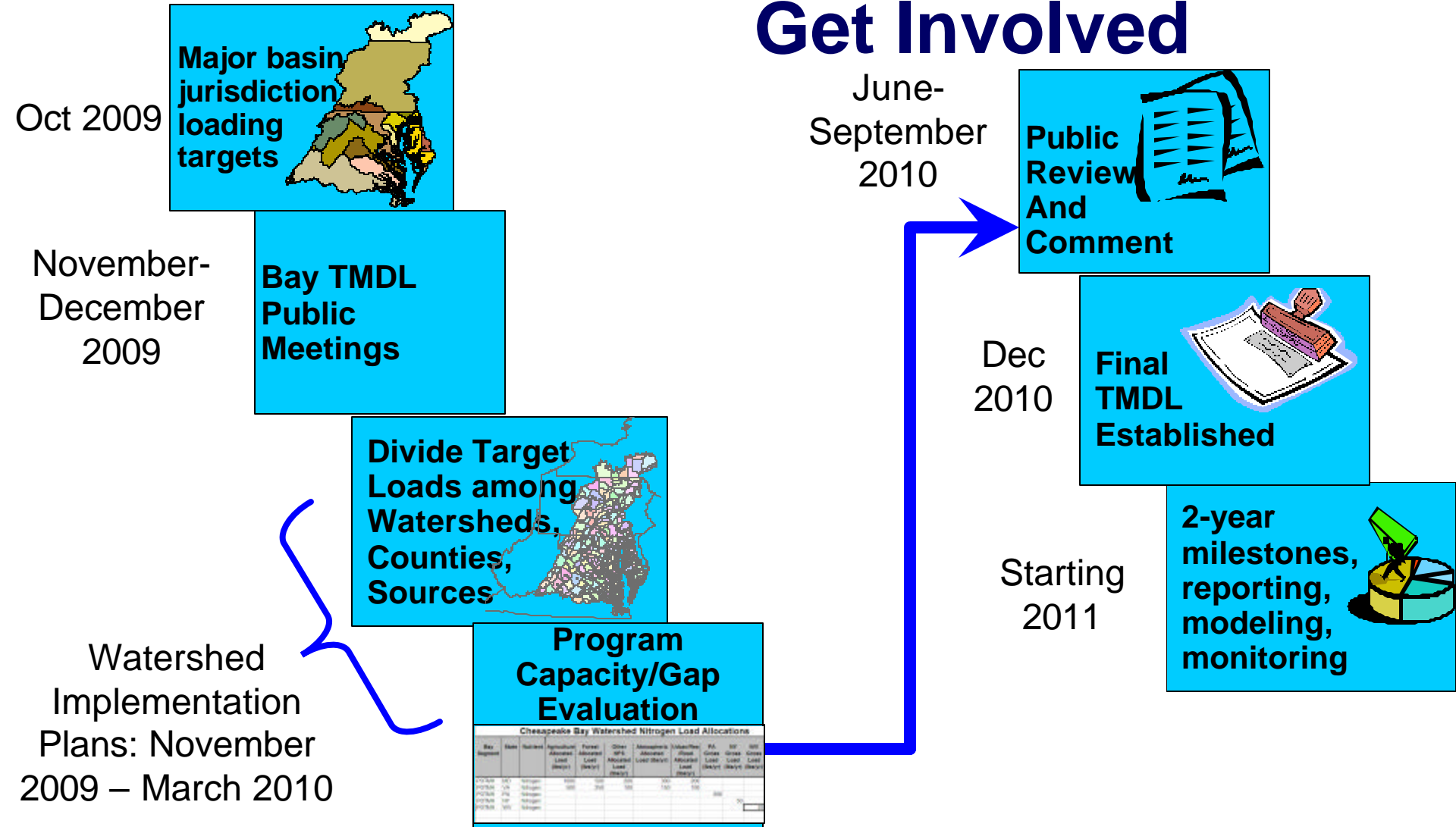
EPA Consequences

- **Will be outlined in EPA letter this fall. May include:**
 - **Assigning more stringent pollution reductions to point sources**
 - **Objecting to state-issued NPDES permits**
 - **Limiting or prohibiting new or expanded discharges of nutrients and sediment**
 - **Withholding, conditioning or reallocating federal grant funds**

TMDL-Executive Order Overlap

- Federal commitments to nutrient/sediment reduction actions
- Work in concert to assure pollution cuts
- Promote accountability, performance
- Common components
 - Requirement for state/DC plans to reduce pollutants to meet clean water standards
 - Two-year milestones to keep pace to 2025
 - Federal consequences if progress lagging

How, When and Where to Get Involved

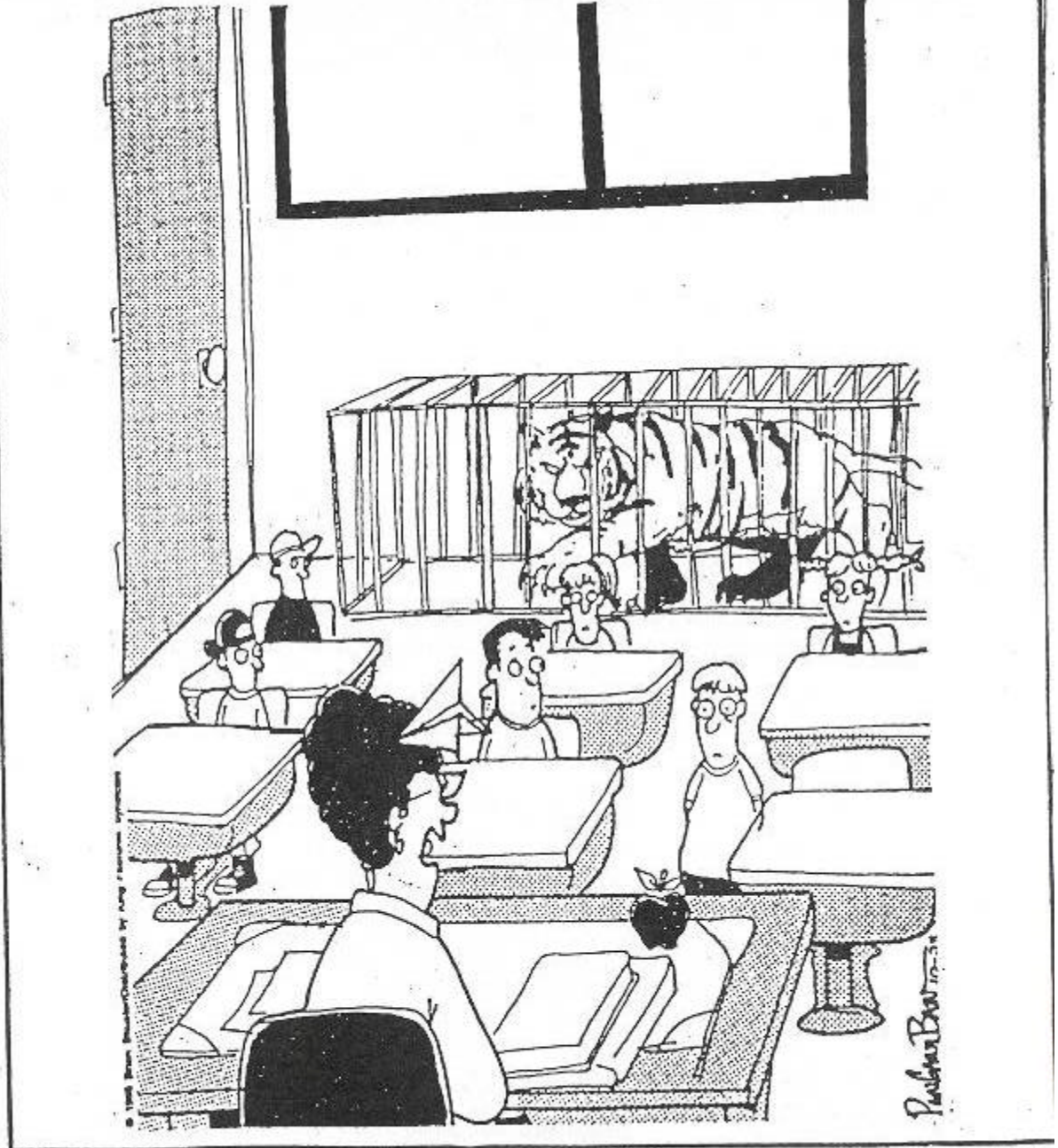


Bay TMDL: Bottom-line

- Actions will clean local waters; restore a thriving Chesapeake Bay
- Federal, state, local officials and agencies will be fully accountable to the public
- Consequences for inaction, lack of progress



**It's a new day
for restoring
local streams,
rivers and the
Chesapeake
Bay**



**"Well, Timmy, it looks like you've just earned yourself
10 minutes in the cage with Mr. Whiskers."**

Further Information

- **Chesapeake Bay TMDL web site**
www.epa.gov/chesapeakebaytmdl
- **U.S. EPA Region 3 Contacts**
 - **Water Protection Division**
 - **Bob Koroncai**
 - 215-814-5730; koroncai.robert@epa.gov
 - **Jennifer Sincock** (sincock.jennifer@epa.gov)
 - **Chesapeake Bay Program Office**
 - **Rich Batiuk**
 - 410-267-5731; batiuk.richard@epa.gov
 - **Katherine Antos** (antos.katherine@epa.gov)

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Where Virginia Goes From Here

Jeff Corbin
Assistant Secretary of Natural Resources
Commonwealth of Virginia

October 2, 2009

TMDL Highlights

- Clean Chesapeake Bay is everyone's goal
- Virginia cannot do it alone
- Bay TMDL helps to ensure entire watershed will do its share
- Deadline is tight
- Process will allow revisions as we learn more – Adaptive Management

Public Involvement is Key

Involve the public and stakeholders
throughout process

- During TMDL and Implementation Plan development through end of 2010
- Continue on-going involvement in future years

Proposed Stakeholder Process

2-Pronged Approach

1. Smaller “scoping group” produce a strawman of options
2. Larger, more active, Stakeholder Group

Schedule for Involvement

ACTION	SCHEDULE
Bay TMDL Webinar	October 2, 2009
Assign State/Basin Allocations for Nutrients – by PSC	October 23, 2009
Participate in EPA Public Meetings	Nov./Dec. 2009
Continue Process of Developing Allocations for Major Source Sectors and Watershed Implementation Plans by Engaging Stakeholders and Citizens	Winter/Spring 2010
Public Meetings on Draft TMDL and WIPs	Summer 2010
EPA Approves Bay TMDL and WIPs	December 31, 2010

2-Year Milestone Process

- Biennial Milestones - identify specific controls and programs (existing or new) to maintain schedule
- Continue to engage stakeholders and public
- Evaluate actions for each period drawing from the Implementation Plan, consider new technologies, BMPs, science, etc.
- Next milestone period – January 1, 2012 to December 31, 2013
- Monitor and evaluate progress

Chesapeake Bay and Virginia Waters Clean-Up Plan

- Requirement in Code of Virginia since 2006
- Annual plan updates and progress reports
- Integrate VA TMDL Implementation Plan and Milestone Actions into the plan



Jeff Corbin

Assistant Secretary of Natural Resources
Commonwealth of Virginia

Jeff.Corbin@Governor.Virginia.Gov

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Question & Answer



Want to find out more?

EPA

<http://www.epa.gov/chesapeakebaytmdl/>

VA-DEQ

<http://www.deq.virginia.gov/tmdl/chesapeakebay.html>

VA-DCR

http://www.dcr.virginia.gov/soil_and_water/baytmdl.shtm

Thank you for your participation.



That concludes today's webinar.